



GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Kolasib

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	28	31	32	32	33
Min Temp (°C)	22	18	16	17	19
Cloud Coverage	Mainly cloudy	Mainly clear	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	99	99	100	98
Min RH (%)	76	52	38	41	45
Wind Speed (Kmph)	4	4	3	2	2
*Wind Direction	S	S-E	S-E	S-E	E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

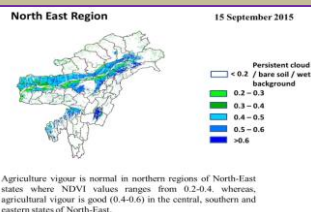
**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 24.3-30.2°C leh a vawh lai berin 20.4-23.3°C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 91-97% leh a hniam lai 48-57% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **63.00mm** ani.

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-33°C a ni ang a. A vawh lai ber in 16-22°C ni tur ah beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 38-76% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 03.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrh Saiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Langtlai

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	6	0	0	0	0
Max Temp (°C)	30	31	32	32	32
Min Temp (°C)	21	19	18	19	20
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Partially clear	Partially clear
Max RH (%)	97	96	89	92	94
Min RH (%)	72	57	42	44	49
Wind Speed (Kmph)	3	4	2	2	2
*Wind Direction	E	N-E	N-E	N-E	N-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
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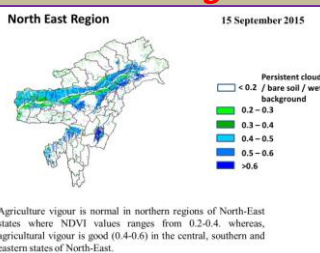
Weather summary of the past three days

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 30-32°C and 18-21°C. Maximum relative humidity is expected in the range of 89-96% and minimum may from 42-72%. Wind direction would be easterly to northeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 06.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		✚ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. ✚ For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. ✚ Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		✚ Double row planting is done by alternating two rows of crops by a wider mound or path. ✚ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Lawngtlai

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	6	0	0	0	0
Max Temp (°C)	30	31	32	32	32
Min Temp (°C)	21	19	18	19	20
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Partially clear	Partially clear
Max RH (%)	97	96	89	92	94
Min RH (%)	72	57	42	44	49
Wind Speed (Kmph)	3	4	2	2	2
*Wind Direction	E	N-E	N-E	N-E	N-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

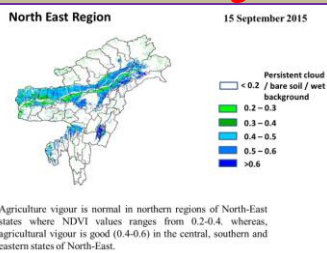
**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32°C a ni ang a. A vawh lai ber in 18-21°C ni tur ah beisei a ni. RH san lai berin 89-96% leh a hniam lai berin 42-72% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 06.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrh Saiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah wawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah wawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lunglei

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	5	0	0	0	0
Max Temp (°C)	29	31	32	32	32
Min Temp (°C)	21	17	16	17	19
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	99	97	99	97
Min RH (%)	70	52	36	41	44
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	E	N-E	N-E	N-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
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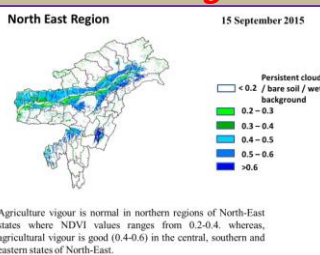
Weather summary of the past three days

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of heavy to moderate and light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 16-21°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 36-70%. Wind direction would be southeasterly to easterly and northeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 05.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		+ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. + For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. + Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		+ Double row planting is done by alternating two rows of crops by a wider mound or path. + The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		+ Trilling into bower structure. + Weeding near the plant + Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha⁻¹ in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha⁻¹, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha⁻¹, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha⁻¹ large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
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District: Lunglei

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	5	0	0	0	0
Max Temp (°C)	29	31	32	32	32
Min Temp (°C)	21	17	16	17	19
Cloud Coverage	Partially clear	Mainly clear	Partially clear	Partially clear	Partially clear
Max RH (%)	99	99	97	99	97
Min RH (%)	70	52	36	41	44
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	S-E	E	N-E	N-E	N-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

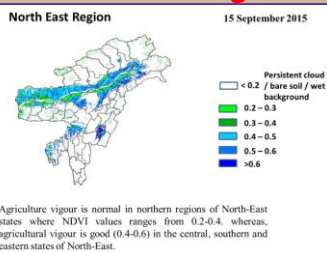
**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32°C a ni ang a. A vawh lai ber in 16-21°C ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 36-70% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 05.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhaisaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Mamit

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	4	0	0	0	0
Max Temp (°C)	29	32	33	33	33
Min Temp (°C)	22	18	17	18	19
Cloud Coverage	Partially clear	Mainly clear	Clear sky	Clear sky	Mainly clear
Max RH (%)	97	100	99	100	99
Min RH (%)	71	51	37	42	45
Wind Speed (Kmph)	4	2	2	2	2
*Wind Direction	S	S-E	E	E	S

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

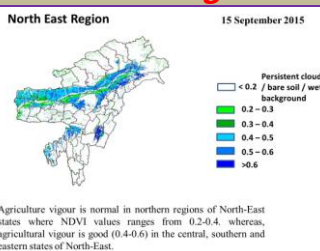
Weather summary of the past three days

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 17-22°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 37-71%. Wind direction would be southeasterly to easterly and southerly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		+ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. + For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. + Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		+ Double row planting is done by alternating two rows of crops by a wider mound or path. + The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		+ Trilling into bower structure. + Weeding near the plant + Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		- Harvest rice crop - Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Mamit

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

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**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

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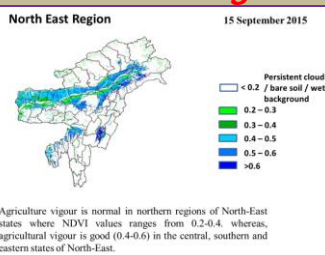
**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32°C a ni ang a. A vawh lai ber in 17-22°C ni tur ah beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 37-71% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 04.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah wawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah wawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Saiha

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	29	30	31	31	32
Min Temp (°C)	20	18	17	18	19
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	98	98	88	93	97
Min RH (%)	74	57	41	43	48
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	N-E	N-E	N-E	N-E

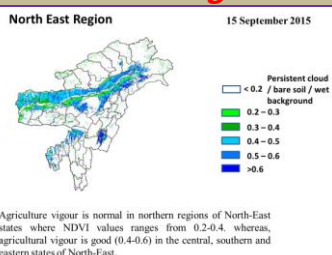
**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days	Weather forecast valid from 25 th September, 2015 To 29 th September, 2015.
	There is chance of heavy to light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 17-20°C. Maximum relative humidity is expected in the range of 88-98% and minimum may from 41-74%. Wind direction would be easterly to northeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. Weekly cumulative rainfall: 03.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. ✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. ✚ Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	✚ Nursery preparation for tomato. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		✚ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. ✚ For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. ✚ Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		✚ Double row planting is done by alternating two rows of crops by a wider mound or path. ✚ The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Saiha

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	29	30	31	31	32
Min Temp (°C)	20	18	17	18	19
Cloud Coverage	Partially clear	Partially clear	Partially clear	Mainly cloudy	Partially clear
Max RH (%)	98	98	88	93	97
Min RH (%)	74	57	41	43	48
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	N-E	N-E	N-E	N-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
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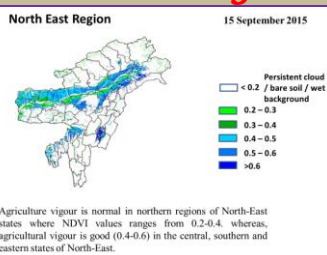
**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32°C a ni ang a. A vawh lai ber in 17-20°C ni tur ah beisei a ni. RH san lai berin 88-98% leh a hniam lai berin 41-74% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 03.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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ICAR RESEARCH COMPLEX FOR NEH REGION
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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Serchhip

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	6	0	0	0	0
Max Temp (°C)	28	30	31	31	32
Min Temp (°C)	20	17	15	16	18
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Partially clear
Max RH (%)	100	100	98	100	100
Min RH (%)	71	51	35	39	43
Wind Speed (Kmph)	2	2	4	2	2
*Wind Direction	S-E	E	E	E	E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

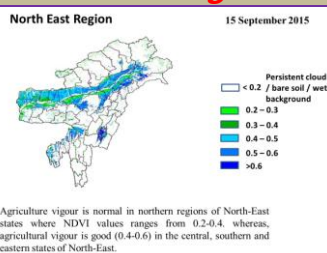
Weather summary of the past three days

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of heavy to light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 28-32°C and 15-20°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 35-71%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 06.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		+ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. + For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. + Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		+ Double row planting is done by alternating two rows of crops by a wider mound or path. + The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		+ Trilling into bower structure. + Weeding near the plant + Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha⁻¹ in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha⁻¹, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha⁻¹, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha⁻¹ large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

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**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

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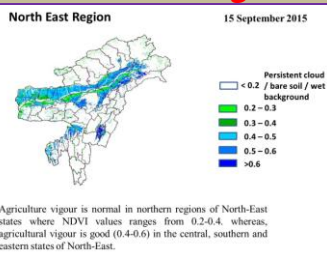
**Ni thum kaltha sik leh
sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-32°C a ni ang a. A vawh lai ber in 15-20°C ni tur ah beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 35-71% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 06.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAL	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Aizawl

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	4	0	0	0	0
Max Temp (°C)	27	30	31	32	32
Min Temp (°C)	21	17	15	16	18
Cloud Coverage	Partially clear	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	98	100	99	100	99
Min RH (%)	72	51	37	41	45
Wind Speed (Kmph)	3	3	2	2	2
*Wind Direction	S	S-E	E	E	S

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

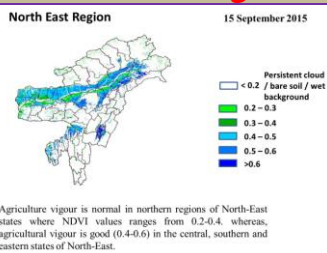
**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-32°C a ni ang a. A vawh lai ber in 15-21°C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 37-72% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 04.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Aizawl

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	4	0	0	0	0
Max Temp (°C)	27	30	31	32	32
Min Temp (°C)	21	17	15	16	18
Cloud Coverage	Partially clear	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	98	100	99	100	99
Min RH (%)	72	51	37	41	45
Wind Speed (Kmph)	3	3	2	2	2
*Wind Direction	S	S-E	E	E	S

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

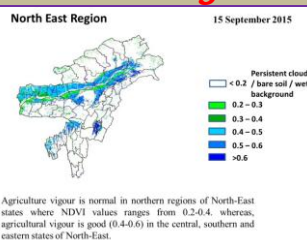
Weather summary of the past three days

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 27-32°C and 15-21°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 37-72%. Wind direction would be southeasterly to easterly and southerly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 04.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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Mizoram Centre, Kolasib- 796081, MIZORAM

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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		+ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. + For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. + Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		+ Double row planting is done by alternating two rows of crops by a wider mound or path. + The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		+ Trilling into bower structure. + Weeding near the plant + Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAL SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed. ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Champhai

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	6	0	0	0	0
Max Temp (°C)	27	30	31	31	31
Min Temp (°C)	21	18	16	17	18
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Partially clear
Max RH (%)	98	98	97	97	98
Min RH (%)	72	52	40	42	46
Wind Speed (Kmph)	3	4	4	4	2
*Wind Direction	S	S-E	S-E	S-E	S-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

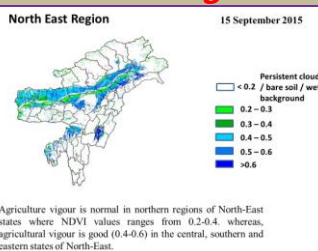
Weather summary of the past three days

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 27-31°C and 16-21°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 40-72%. Wind direction would be southerly to southeasterly with the wind speed of 3-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 06.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



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			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		+ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. + For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. + Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		+ Double row planting is done by alternating two rows of crops by a wider mound or path. + The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		+ Trilling into bower structure. + Weeding near the plant + Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha⁻¹ in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha⁻¹, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha⁻¹, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha⁻¹ large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Champhai

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/Mizo

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	6	0	0	0	0
Max Temp (°C)	27	30	31	31	31
Min Temp (°C)	21	18	16	17	18
Cloud Coverage	Mainly cloudy	Partially clear	Mainly clear	Partially clear	Partially clear
Max RH (%)	98	98	97	97	98
Min RH (%)	72	52	40	42	46
Wind Speed (Kmph)	3	4	4	4	2
*Wind Direction	S	S-E	S-E	S-E	S-E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
 Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

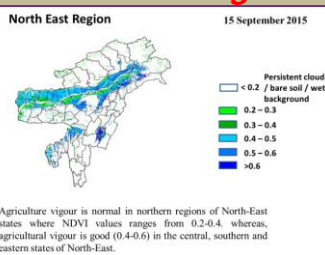
**Ni thum kaltha sik leh
 sa dinhmun tlangpui**

**September 25, 2015 atanga September 29, 2015
 sik leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-31°C a ni ang a. A vawh lai ber in 16-21°C ni tur ah beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 40-72% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 06.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. • Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. • Lei, balu leh bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek leitha chu thlai pakhat ah 600:200:100g a pek tur. • Certified thlai chi chauh hman tur. • Ser kung bula tuitling chu paihfai vek tur. • A tiak inchen tlang chauh phun atan hman tur. • A zar tliak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 600:200:100g a pek tur. • Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. • A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. • A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain hnah 32 a neih hunah pek tur. - Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. - Leitha chu thlai pakhat ah 60:50:60g a pek tur. - Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	A rah lai	LUNGLEI	- Ni 7 danah tui chu tha taka pek tur. - Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. - Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrsaiabe	A chin dan	1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur. - A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai		• Bean hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan		• Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. • A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	A chin dan		• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
Buh	Nursery stage	Pre kharif rice	• A chi tha leh khat tha chauh hman tur. • Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. • Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	• A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. • Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	A chin dan		• Lei chu vawi 2/3 laihphut phawt tur. • A chi chu a line indawt a chin tur • A chi chu kg khatah Thiram 4g a chiah tur. • Hectare khatah buh chi chu 20-25kg hman tur. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	Land preparation		• Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. • Lei chu boruak kal that nan laihphut thin tur. • Nitrogen leitha chu an mamawh taw kanga pek tur.



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		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla 16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Kolasib

Period: 25 - 29, September, 2015

Bulletin No: -556/2015/ Bulletin/English

Date of issue: 24th September, 2015

Parameters	25.09.2015	26.09.2015	27.09.2015	28.09.2015	29.09.2015
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	28	31	32	32	33
Min Temp (°C)	22	18	16	17	19
Cloud Coverage	Mainly cloudy	Mainly clear	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	99	99	100	98
Min RH (%)	76	52	38	41	45
Wind Speed (Kmph)	4	4	3	2	2
*Wind Direction	S	S-E	S-E	S-E	E

**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E,
Southerly- S, South-Westerly- S-W, Westerly- W, North-westerly- N-W.**

STATUS OF MONSOON- August 1-31, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 313.32mm (387.0mm)	Champhai- 268.78mm (301.30mm)	Saiha- 216.20 mm (367.7mm)	Kolasib- 247.17mm (372.0mm)
Lawngtlai-226.10mm (365.4mm)	Lunglei-370.28mm (371.4mm)	Mamit-197.57mm (376.0mm)	Serchhip-247.35mm (301.8mm)

Weather summary of the past three days

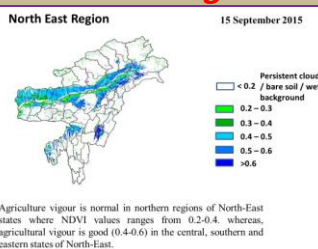
The temperature range for maximum and minimum were 24.3-30.2°C and 20.4-23.3°C respectively. Dense cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 91-97% & minimum of 48-57%. Rainfall recorded for the past three days is **63.00mm.**

Weather forecast valid from 25th September, 2015 To 29th September, 2015.

There is chance of heavy to moderate and light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 28-33°C and 16-22°C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 38-76%. Wind direction would be southerly to southeasterly and easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 03.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage		- Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



			in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Vegetative/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt). - Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. - Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. - Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem	Applications of neem



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		weevil	powder effectively controlled weevils. - Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Leaf spot and leaf blotch	Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.



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			○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Passion Fruit	Flowering stage		+ Application of 217gms, 312 gms, 167gms of Urea, Super and Potash respectively per vine annually in splits for the purple and the yellow variety. + For the Kavari variety 238.7gm, 375gms, 167gms of Urea super, Potash respectively per vine per year in split doses. + Weeding and base clearing near base of the plant
Pineapple	Planting and gap filling stage		+ Double row planting is done by alternating two rows of crops by a wider mound or path. + The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy season, they may begin to decay.
French bean	Vegetative stage		+ Trilling into bower structure. + Weeding near the plant + Draining of excess water and preparation mound near the base.



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			Apply split dose of nitrogen near base of the plant.
Cowpea	Vegetative stage	KOLASIB	- Trilling into bower structure. - Weeding near the plant - Draining of excess water and preparation mound near the base. - Apply split dose of nitrogen near base of the plant.
Early Cole crop	Nursery stage	Land preparation AIZAWL CHAMPAI SERCHHIP	✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off LUNGLEI	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly LAWNGTLAI SAIHA	✓ Application of carbofuran 3G @100g/m² in nursery is quite effective.
Rice	Harvesting stage		✚ Harvest rice crop ✚ Cut residue 20 cm from the base.



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			- Open the furrow with the help of furrow opener. - Place FYM and fertilizer. - Place the seed and cover by soil.
Kharif pulses (Green gram, Black gram and Rajma)	Harvest stage		70% of the pod colour turns to dark green to black. - Single cut varieties are harvested at 50-100% flowering stage. In multi cut varieties, the first cut is taken 55 days after sowing and the subsequent at 40 days interval.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha⁻¹ in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha⁻¹, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha⁻¹, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha⁻¹ large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
			Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
			Spray Quinalphos or



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			Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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